

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

REMARKS

1  
2  
3 The Office Action asserted that the "title of the invention is not descriptive".  
4 It also required a new title "that is clearly indicative of the invention to which the  
5 claims are directed".  
6

7 In response, the current title of 'Voltage Compensation' was replaced with the  
8 new title of --Voltage Compensation with Feedback--.

9 It is therefore respectfully requested that this requirement be withdrawn.  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

1 The Office Action rejected claims 6-9, 25, 26, 28, 30, and 31 under 35 U.S.C.  
2 112. Specifically, the Office Action asserted with regard to claim 6 in particular that  
3 "there is no support for the 'feedback component', in addition to the structure recited  
4 in claim 1. It is clear from the specification that the 'feedback component' is part of  
5 the already recited 'voltage driver' in claim 1. Thus, the claim should state this."

6 The Office Action also rejected claims 33-49 under 35 U.S.C. 112.  
7 Specifically, the Office Action asserted with regard to claim 33 in particular that  
8 "there is no support for the language of lines 4-5. As seen from the specification, the  
9 'reference voltage driver' provides the operation recited in lines 4-5 and includes the  
10 'feedback receiver'."

11  
12 It is noted that the Office Action fails to cite any support in Applicant's  
13 Specification for the assertions in these 35 U.S.C. 112 rejections. Hence, these  
14 rejections are traversed inasmuch as they do not provide any textual or diagrammatic  
15 evidence or explanation.

16 Moreover, the Examiner's attention is directed, by way of example but not  
17 limitation, to page 8, line 19 for "feedback component 120" and to page 9, line 7 for  
18 "feedback receiver 120". Attention is also directed, by way of example but not  
19 limitation, to page 6, line 3 for "reference voltage driver 114" and to FIG. 2  
20 generally.

21 It is therefore respectfully requested that these rejections under 35 U.S.C. 112  
22 be withdrawn.  
23  
24  
25

1 The Office Action rejected claims 1-62 "under 35 U.S.C. 103(a) as being  
2 unpatentable over Manning (USPN 6,288,954) in view of Kajigaya et al. (USPN  
3 5,426,616)."

4 On page 3, the Office Action continues, in relevant part, "Kajigaya et al.  
5 disclose, in Figs. 27 and 37, a specific 'reference voltage driver' providing variable  
6 gain with high accuracy. This 'reference voltage driver' is seen to include 'a  
7 feedback receiver', 'a register (DEC1 and DEC2)' and a counter (CTRN and  
8 CTRB)'."

9  
10 It is noted that the Office Action neglects to provide any corresponding  
11 element for feedback receiver. Moreover, it is apparent that no element described  
12 or suggested by Manning and/or Kajigaya et al. (either alone or in combination) can  
13 correspond to feedback receiver. Accordingly, it is respectfully submitted that no  
14 prima facie case has been established by the Office Action.

15 It is therefore respectfully requested that this rejection be withdrawn.

16  
17 Additionally, it appears that Manning has an "on-board reference-signal  
18 generator 32, which in one embodiment is used to internally generate a reference  
19 signal Vrefint during testing of the circuit 30" (column 3, lines 3-5; Figures 2 and 3)  
20 and that Kajigaya et al. has a "a standard voltage generator VLG ... a fuse circuit  
21 FC" (column 12, lines 13-21, especially lines 17-18; Figures 27, 35, and 37).

22 These generators receive input from external sources. For example,  
23 "generator 32" of Manning receives input from "mode logic 34", which receives  
24 inputs "digital mode signals M<sub>0</sub> and M<sub>1</sub>" via "terminals 36<sub>0</sub> and 36<sub>1</sub>" (column 3, lines  
25 20-25; Figures 2 and 3). Also, "generator VLG/fuse circuit FC" of Kajigaya et al.

1 receives as input "VCC", "VRB", "VRN", "TVLK", "PFS", etc. (Figures 27, 35,  
 2 and 37). No output of "generator 32" of Manning affects its input. Similarly, no  
 3 output of "generator VLG/fuse circuit FC" of Kajigaya et al. affects its inputs.  
 4 Furthermore, neither document, either alone or in combination, describes or suggests  
 5 involving feedback with these inputs and/or outputs of their generators.

6 Again, it is therefore respectfully requested that this section be withdrawn.

7  
 8 As noted above, claims 1-73 are now presented for examination. Of these  
 9 claims, claims 1, 17, 33, 43, 53, 60, and 63 are independent.

10  
 11 Hence, no art of record, either alone or in combination, anticipates or renders  
 12 obvious the following elements in conjunction with the other elements of their  
 13 respective claims:

14 Claim 1: a voltage driver that produces a compensated voltage . .  
 15 . wherein the compensated voltage is distributed to form the  
 16 distributed voltage at the one or more components . . . wherein the  
 17 voltage driver is responsive to feedback derived from the distributed  
 18 voltage to adjust the compensated voltage so that the distributed voltage  
 19 is approximately equal to a nominal voltage.

20 Claim 17: a reference voltage driver that produces a  
 21 compensated reference voltage . . . wherein the compensated reference  
 22 voltage is distributed to form the distributed reference voltage . . .  
 23 wherein the reference voltage driver has a variable gain that increases  
 24 when the distributed reference voltage is less than a nominal reference  
 25

1 reference voltage at the data and feedback receivers . . . wherein the  
2 reference voltage driver has a variable gain that is configurable to  
3 increase in response to the feedback signal when the distributed  
4 reference voltage is less than the nominal reference voltage and to  
5 decrease in response to the feedback signal when the distributed  
6 reference voltage is greater than the nominal reference voltage.

7 Claim 60: amplifying a nominal voltage by a variable gain to  
8 produce a compensated reference voltage . . . routing the compensated  
9 reference voltage over resistive conductors to form the distributed  
10 voltage . . . increasing the variable gain when the distributed voltage is  
11 less than the nominal voltage [and] decreasing the variable gain when  
12 the distributed voltage is greater than the nominal voltage.

13 Claim 63: a reference voltage driver that has a variable gain and  
14 produces a compensated reference voltage . . . a particular receiver of  
15 the plurality of receivers capable of evaluating a nominal reference  
16 voltage signal relative to the distributed reference voltage to produce  
17 feedback signal . . . wherein the compensated reference voltage is  
18 distributed to form the distributed reference voltage . . . wherein the  
19 reference voltage driver is responsive to the feedback signal . . .  
20

21 Although each pending dependent claim includes additional element(s)  
22 militating toward allowability, it is respectfully submitted that the dependent claims  
23 are allowable at least for the reasons given above in connection with their respective  
24 independent claims.  
25

CONCLUSION

It is respectfully submitted that all of claims 1-73 are allowable, and prompt action to that end is hereby requested.

Respectfully Submitted,

Dated: August 7, 2003

By: Keith W. Saunders

Keith W. Saunders  
Reg. No. 41,462  
(509) 324-9256 ext. 238

OFFICIAL

FAX RECEIVED

AUG 8 2003

TECHNOLOGY CENTER 2800



Creation date: 12-30-2003  
Indexing Officer: MALI3 - MOHAMED ALI  
Team: OIPEBackFileIndexing  
Dossier: 10076666

Legal Date: 08-29-2003

No.	Doccode	Number of pages
1	IDS	4
2	NPL	116

Total number of pages: 120

Remarks:

Order of re-scan issued on .....